

Amendments to the Claims:

1-10. (Canceled)

11. (Currently Amended)     An apparatus for detecting the location of electrical activity in the wall of a human bladder, comprising:

a detector adapted to be introduced into the bladder via the urethra, and having a connector to the exterior; ~~and~~

a filling lumen adapted to permit passage of a sterile fluid from the exterior through an open end of the filling lumen into the bladder for distending the bladder; and

an external closure for the filling lumen, the closure being effective when closed to maintain the bladder in a distended state, and being effective when released to drain the bladder.

12. (Currently Amended)     [[An]] The apparatus according to claim 11 wherein the detector comprises an expandable device adapted for passage through the urethra in a collapsed condition and reversibly expandable when in the bladder.

13. (Previously Presented)     The apparatus according to claim 12 wherein said expandable device has a plurality of detection sites thereon.

14. (Previously Presented)     The apparatus according to claim 13 wherein said detection sites are uniformly distributed on the surface thereof.

15. (Previously Presented)     The apparatus according to claim 14 wherein said expandable device resembles a sphere in the expanded state.

16. (Previously Presented)     The apparatus according to claim 14 wherein said expandable device comprises a cage having a plurality of arcuate arms extending between opposite poles.

17. (Previously Presented) The apparatus according to claim 12 and including an external telescopic connector whereby relative telescoping movement causes the device to expand and contract on demand.

18. (Previously Presented) The apparatus according to claim 12 wherein the expandable device comprises an inflatable device.

19. (Previously Presented) The apparatus according to claim 18 wherein said device includes an inflation lumen for inflating the inflatable device, the inflation lumen having an external closure.

20. (Canceled)

21. (Previously Presented) The apparatus according to claim 11 and comprising multiple lumens.

22. (Previously Presented) The apparatus according to claim 11 and comprising an array of detection sites on the detector adapted to detect electrical activity in the wall of the bladder whereby the location of said electrical activity can be determined.

23. (Previously Presented) The apparatus according to claim 22 wherein said detection sites are uniformly distributed.

24. (Previously Presented) The apparatus according to claim 12 and further comprising orientation means whereby the orientation of the expandable device in the bladder may be determined from outside the bladder.

25. (Previously Presented) The apparatus according to claim 12 and further including a lumen adapted to receive a stiff curved guide member for steering of the expandable device.

26. (Previously Presented) The apparatus according to claim 11 and further including an ablation tool adapted for insertion through the urethra and operable to ablate the internal surface of the bladder wall.

27. (Previously Presented) The apparatus according to claim 26 wherein the tip of said tool is detectable by a position sensing apparatus.

28. (Previously Presented) The apparatus according to claim 27 wherein the tip of said tool is adapted to be electrically active and wherein said apparatus is adapted to detect said activity.

29. (New) The apparatus according to claim 11, wherein the external closure for the filling lumen comprises a valve.